AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A communication system comprising:

a gateway which transfers IP datagrams, said gateway detecting a protocol used for

transfer of at least one IP datagram which is received;

a quality determining unit which includes QoS (quality of service) data of a plurality of

protocols, wherein the quality determining unit determines a QoS which corresponds to the

detected protocol based on said QoS data~~determines a QoS (quality of service)~~; and

~~a gateway which transfers an IP datagram at said QoS; and~~

a user fee determining unit which determines a user fee ~~for said IP datagram~~ based on

said QoS which is determined,

wherein said gateway transfers the at least one IP datagram at the QoS which is

determined.

Claim 2 (currently amended): The communication system according to claim 1, wherein

said gateway transfers a group of IP datagrams including said at least one IP datagram, and said

QoS includes a priority for said at least one IP datagram in the transfer of said group of IP

datagrams.

Claim 3 (currently amended): The communication system according to claim 1, wherein

said QoS includes a maximum allowable difference from a predetermined delay time for

transferring said at least one IP datagram.

Claim 4 (currently amended): The communication system according to claim 1, wherein

said gateway includes a buffer transiently storingwhich stores said at least one IP datagram, and

said QoS includes specifies a size of said buffer.

Claim 5 (currently amended): The communication system according to claim 1, wherein

said QoS includes provision of specifies whether a firewall service is provided.

Claim 6 (currently amended): The communication system according to claim 1, wherein

said QoS includes provision ofspecifies whether a VTN VPN (Virtual Personal Network) service

is provided.

Claim 7 (currently amended): The communication system according to claim 1, wherein said gateway is provided with~~includes~~ an API (Application Interface) for accessing said quality determining unit <u>in order</u> to set said QoS.

Claim 8 (currently amended): The communication system according to claim 1, wherein said gateway detects a protocol used for the transfer of said <u>at least one</u> IP datagram, ~~and said~~ ~~quality determining unit determines said QoS based on said protocol~~ <u>based on content of a header of the at least one IP datagram</u>.

Claim 9 (currently amended): The communication system according to ~~claim 8~~<u>claim 1</u>, wherein said ~~quality determining unit includes~~<u>QoS data is</u> a ~~first~~ table indicative of a correspondence between said <u>detected</u> protocol and said QoS, and <u>said quality determining unit</u> determines said QoS ~~referring to~~ <u>based on</u> said ~~first~~ table.

Claim 10 (currently amended): The communication system according to ~~claim 8~~<u>claim 1</u>, wherein said quality determining unit determines said QoS based on a ToS (Type of Service) of said IP datagram <u>in addition to the detected protocol</u>.

Claim 11 (currently amended): The communication system according to claim 10,

wherein said ~~quality determining unit includes~~QoS data is a ~~second~~table indicative of a

correspondence among said <u>detected</u> protocol, said ToS and said QoS, and <u>said quality</u>

<u>determining unit</u> determines said QoS ~~referring to~~<u>based on</u> said ~~second~~table.

Claim 12 (currently amended): The communication system according to ~~claim 8~~<u>claim 1</u>,

wherein said <u>at least one</u> IP datagram includes an IP address of a user communicating said <u>at</u>

<u>least one</u> IP datagram <u>which is received by said gateway</u>, and said quality determining unit

determines said QoS based on said IP address <u>in addition to the detected protocol</u>.

Claim 13 (currently amended): The communication system according to claim 12,

wherein said ~~quality determining unit includes~~QOS data is <u>a</u> ~~third~~table indicative of a

correspondence among said protocol, said IP address and said QoS, and <u>said quality determining</u>

<u>unit</u> determines said QoS ~~referring to~~<u>based on</u> said ~~third~~table.

Claim 14 (currently amended): A communication system comprising:

a gateway which transfers ~~an IP datagram~~<u>IP datagrams</u>, wherein said gateway detects a

protocol used for the transfer of ~~said~~<u>at least one</u> IP datagram <u>which is received</u>; and

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a quality determining unit ~~which determines a QoS (quality of service) based on said protocol, wherein said gateway transfers said IP datagram at said QoS~~ which includes QoS (quality of service) data of a plurality of protocols, wherein the quality determining unit determines a QoS which corresponds to the detected protocol based on said QoS data.

Claim 15 (currently amended): The communication system according to claim 14, wherein said gateway transfers a group of IP datagrams including said at least one IP datagram, and said QoS ~~includes~~ specifies a priority for said at least one IP datagram in the transfer of said group of IP datagrams.

Claim 16 (currently amended): The communication system according to claim 14, wherein said QoS ~~includes~~ specifies a maximum allowable difference from a predetermined delay time for transferring said at least one IP datagram.

Claim 17 (currently amended): The communication system according to claim 14, wherein said gateway includes a buffer ~~transiently storing~~ which stores said at least one IP datagram, and said QoS ~~includes~~ specifies a size of said buffer.

Claim 18 (currently amended): The communication system according to claim 14, wherein said gateway is provided withincludes an API (Application Interface) for accessing said quality determining unit to set said QoS.

Claim 19 (currently amended): The communication system according to claim 14, wherein said quality determining unit determines said QoS based on a ToS (Type of Service) of said at least one IP datagram in addition to the detected protocol.

Claim 20 (currently amended): The communication system according to claim 14, wherein said IP datagram includes an IP address of a user communicating said at least one IP datagram which is received by said gateway, and said quality determining unit determines said QoS based on said IP address in addition to the detected protocol.

Claim 21 (currently amended): The communication system according to claim 20, wherein said QoS includes provision ofspecifies whether a firewall service is provided.

Claim 22 (currently amended): The communication system according to claim 20, wherein said QoS includes provision ofspecifies whether a VTN VPN (Virtual Personal Network) service is provided.

Claim 23 (currently amended): A communication system comprising:

a gateway which transfers ~~an IP datagram~~IP datagrams, wherein said gateway detects a

protocol used for the transfer of ~~said~~ at least one IP datagram which is received;

a quality determining unit which includes QoS (quality of service) data of a plurality of

protocols, wherein the quality determining unit determines a QoS which corresponds to the

detected protocol based on said QoS data; and

a user fee determining unit which determines a user fee for said at least one IP datagram

based on said QoS which is determined.

Claim 24 (currently amended): The communication system according to claim 23,

wherein said user fee determining unit determines said user fee based on a ToS of said at least

one IP datagram in addition to the detected protocol.

Claim 25 (currently amended): A communication method comprising:

determining a QoS (quality of service) for at least one IP datagram from QoS data of a

plurality of protocols, wherein the QoS which is determined corresponds to a detected protocol

of the at least one IP datagram ;

transferring ~~an IP datagram~~the at least one IP datagram at said QoS by a communication

system; and

determining a user fee for use of said communication system based on said QoS which is

determined.

Claim 26 (currently amended): A communication method comprising:

receiving ~~an IP datagram~~at least one IP datagram;

detecting a protocol used for transmitting said at least one IP datagram which is received;

determining a QoS (quality of service) from QoS data of a plurality of protocols, wherein

the QoS which is determined corresponds to the detected protocol; and

transferring said IP datagram at said QoS which is determined.

Claim 27 (currently amended): A communication method comprising:

transferring ~~an IP datagram~~at least one IP datagram by a communication system;

detecting a protocol used for transmitting said at least one IP datagram;

determining a QoS (quality of service) from QoS data of a plurality of protocols, wherein the QoS which is determined corresponds to the detected protocol; and

determining a user fee for use of said communication system based on said detected protocol.